

IN THE CLAIMS

Please amend the claims as follows:

Claims 1-9 (Canceled).

Claim 10 (Currently Amended): A maintenance system comprising:

a plurality of equipment units each associated with a monitoring unit, the monitoring unit being configured to monitor ~~for monitoring~~ the respective equipment unit, the monitoring unit including,

a test unit ~~for testing~~ configured

to test proper operation of each ~~the respective~~ equipment unit ~~on proper operation and for issuing~~

to issue fault messages ~~in a case~~ when ~~[[the]]~~ testing indicates a failure of the respective equipment unit, and

a non-volatile memory unit ~~for storing~~ configured to store at least the fault messages;

a central maintenance unit ~~in communication~~ configured to communicate with ~~[[the]]~~ test units of the plurality of equipment units, the central maintenance unit including a diagnosis unit ~~for checking~~ configured

to check a state of the plurality of equipment units by using the fault messages ~~of the test units, and for generating~~

to generate a report on an overall state of ~~[[an]]~~ operation of the maintenance system; and

a data transmission link ~~for providing~~ configured to provide a data connection between the plurality of equipment units and the central maintenance unit, wherein

the central maintenance unit ~~is configured to make~~ makes the report ~~on the overall state of the operation~~ available on the data transmission link, and wherein each of the plurality of equipment units ~~further~~ include a detection circuit ~~for detecting, capturing, and transferring~~ configured to detect and capture the report ~~on the overall state of the operation~~ from the data transmission link, and to transfer the report from the data transmission link into ~~[[the]]~~ a respective non-volatile memory unit after the report ~~on the overall state of the operation~~ is available on the data transmission link.

Claim 11 (Currently Amended): The maintenance system according to Claim 10, further comprising:

a subset of equipment units grouping at least some of the plurality of equipment units into a group of equipment units, the subset including,

a group test unit connected to the data transmission link, ~~the group test unit testing and configured~~ to test proper operation of the equipment units of the group ~~on proper operation and issuing~~ to issue group fault messages ~~in a case where the~~ when testing indicates a failure of at least one equipment unit of the group, and

~~making to make~~ the group fault messages available on the data transmission link, ~~[[;]]~~ and a non-volatile memory unit ~~for storing~~ configured to store at least the group fault messages, wherein the detection circuit of the equipment units of the group ~~are further detecting, capturing, and transferring~~ detects and captures group fault messages, and transfers the group fault messages into ~~[[the]]~~ respective non-volatile memory units when the group fault messages are available on the data transmission link, and ~~wherein~~ the central maintenance unit takes the group fault messages into account when making the report ~~on the overall state of the operation~~.

Claim 12 (Currently Amended): The maintenance system according to Claim 10, further comprising:
a user interface linked to the central maintenance unit by the data transmission link; ~~the user interface and~~ and configured to display the report ~~on the overall state of the operation~~ to a user.

Claim 13 (Currently Amended): The maintenance system according to Claim 10, wherein the report ~~on the overall state of the operation~~ is a post flight report that includes a

log of all the fault messages ~~that were~~ received by the central maintenance unit during a flight of an aircraft.

Claim 14 (Currently Amended): The maintenance system according to Claim 13, further comprising:

an airborne external communications network[[,]] connected to the maintenance system, ~~for sending and configured to send the report on the overall state of the operation to~~ a fleet management center.

Claim 15 (Currently Amended): The maintenance system according to Claim 11, wherein the detection circuit

analyzes labels of messages that are transmitted over the data transmission link, and ~~retains~~ isolates the group fault messages and the report ~~on the overall state of the operation that were~~ found by analyzing the labels of the messages.

Claim 16 (Currently Amended): The maintenance system according to Claim 10, wherein the central maintenance unit ~~is configured to submit~~ submits the report ~~on the overall state of the operation when receiving an instruction~~ after a flight ~~upon an instruction by a~~ user.